NEVAMERICA

US DEPARTMENT OF ENERGY FIELD OPERATIONS PROGRAM

2002 Ford Th!nk Neighbor 2-Passenger

VEHICLE SPECIFICATIONS

PURPOSE-BUILT VEHICLE
Base Vehicle: 2002 Ford Th!nk Neighbor 2-Passenger
VIN: 1FAB205620100012
Seatbelt Positions: Two
Standard Features:
- Rear Wheel Drive
- Four-Wheel Drum Brakes
- Regenerative Braking
- Three-Point Safety Belts
- Speedometer
- Odometer
- State-Of-Charge Meter[2]
- Back-up Alarm
- Fault Display
- Traction Control
- On Board Battery Charger

BATTERY
Manufacturer: East Penn
Type: 8G31 Gel Deep Cycle
Number of Modules: 6
Weight of Modules: 32.6 kg
Weight of Pack(s): 195.6 kg
Pack(s) Location: Under Front Seats
Nominal Module Voltage: 12V
Nominal System Voltage: 72V
Nominal Capacity (C/2): 73 Ah

WEIGHTS
Design Curb Weight: 1348 lb
Delivered Curb Weight: 1355 lb
Distribution F/R: 44/56%
GVWR: 1900 lb
GAWR F/R: 750/1230 lb
Payload: 551 lb[3]
Performance Goal: 400 lb

DIMENSIONS
Wheelbase: 67.9 inches
Track F/R: 49.0/49.0 inches
Length: 104.0 inches
Width: 56.4 inches
Height: 67.7 inches
Ground Clearance: 5.7 inches
Performance Goal: 5.0 inches

CHARGER
Location: On board
Type: Conductive
Input Voltages: 120 VAC

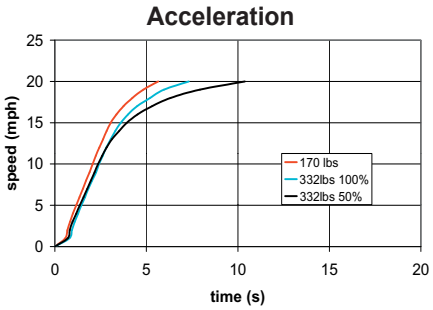
TIRES
Tire Mfg: Cheng Shin Tire
Tire Model: NHS
Tire Size: 21 x 8.5 - 12
Tire Pressure: 32 psi
Spare Installed: No

TEST NOTES:

1. Vehicle was operated at maximum attainable speed until 18 mph could no longer be maintained.
2. SOC Meter was inaccurate. Modifications to be performed by manufacturer. (NCR NTP-004-0012-001).
3. As delivered payload was 544 Lbs.
4. Average handling time was determined by comparing 10 NEVS that were enrolled during the first NEVAmerica Program

This vehicle meets all EV America Minimum Requirements listed on back.
Values in red indicate the Performance Goal was not met. • All Power and Energy Values are DC unless otherwise specified.

PERFORMANCE STATISTICS



Acceleration (0-20 mph) @ 332 lbs Payload
At 100% SOC: 6.3 seconds
At 50% SOC: 9.5 seconds
Performance Goal: 6.0 seconds

Maximum Speed @ 170 lbs Payload
(FMVSS 49 CFR 571.500 S5.a)
At 100%: 24.2 mph
Performance goal ≤ 25 mph

Maximum Speed @ 332 lbs Payload
At 100% SOC: 23.3 mph
At 50% SOC: 22.1 mph

At Maximum Speed Range[1]
Range: 33.1 miles
Energy Used: 4.09 kWh
Average Power: 2.84 kW
Efficiency: 123.6 Wh-DC/mile
Specific Energy: 20.9 Wh/kg

Braking From 20 mph
Controlled Dry: 20 feet
Controlled Wet: 19 feet
Panic Wet: 22 feet
Course Deviation: 0.0 feet

Handling
Average time: 76.8 seconds
Average NEV Time[4]: 77.3 seconds

Gradeability (Calculated)
Maximum Speed @ 3%: 19.2 mph
Maximum Speed @ 6%: 17.0 mph
Maximum Grade: 25.1%

Charging Efficiency:
Efficiency: 162.6 Wh - AC/mi
Energy Cost: @ $0.10/kWh: $0.016/mi

Charger
Max Ground Current: <0.01 mA
Max Battery Leakage : <0.01 MIU
Max DC Charge Current: 11.9 A
Max AC Charge Current: 10.8 A
Peak Demand: 960 W
Time to Recharge: 8.3 hours
Performance Goal: 100% SOC within 12 hours